

INCH-POUND

MIL-DTL-29183/3B
13 March 2003
SUPERSEDING
MIL-P-29183/3A
24 May 1985

DETAIL SPECIFICATION SHEET

PANELBOARD, POWER DISTRIBUTION,
PORTABLE, WEATHERPROOF, TYPE I, CLASS 1,
CONFIGURATION 3: 208Y/120 VOLT, 30 KILOWATT

Inactive for new design after 13 March 2003

This specification is approved for use by all departments and agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of MIL-DTL-29183 listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation.

REQUIREMENTS: The distribution panel shall be as specified herein and in accordance with figure 1, and tables I and II. Government furnished equipment shall be as specified in table III.

Physical:

Weight: The weight shall not exceed 170 pounds (77 kilograms).

Dimensions (maximum):

Length: 40.5 inches (1029 millimeters (mm))

Width: 32.5 inches (826 mm)

Height: 35.5 inches (902 mm)

Hinged access panel: Not required (see MIL-DTL-29183)

Stability: The vertical center of gravity shall be not more than 21.0 inches (534 mm) above level ground. Additional stability requirements shall apply in accordance with MIL-DTL-29183.

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Electrical:

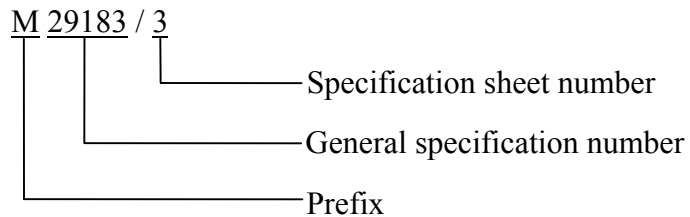
Input: The input to the distribution panel shall be 208Y/120 volt (V), 3-phase (ø), 4-pole (P), 5-wire (W), 60 Hertz (Hz).

Bus capacity: The bus bar capacity shall be 225 amperes (A).

Provision for modification: Design provisions shall be made to accommodate the future installation of an additional 3P-100A main breaker and an additional MS90558C44412P connector for dual input capability.

Circuit breaker: The number of poles and current rating shall be as indicated in table I herein and the voltage rating shall be sufficient for the intended circuit.

PIN: The government part identification number (PIN) is as follows:



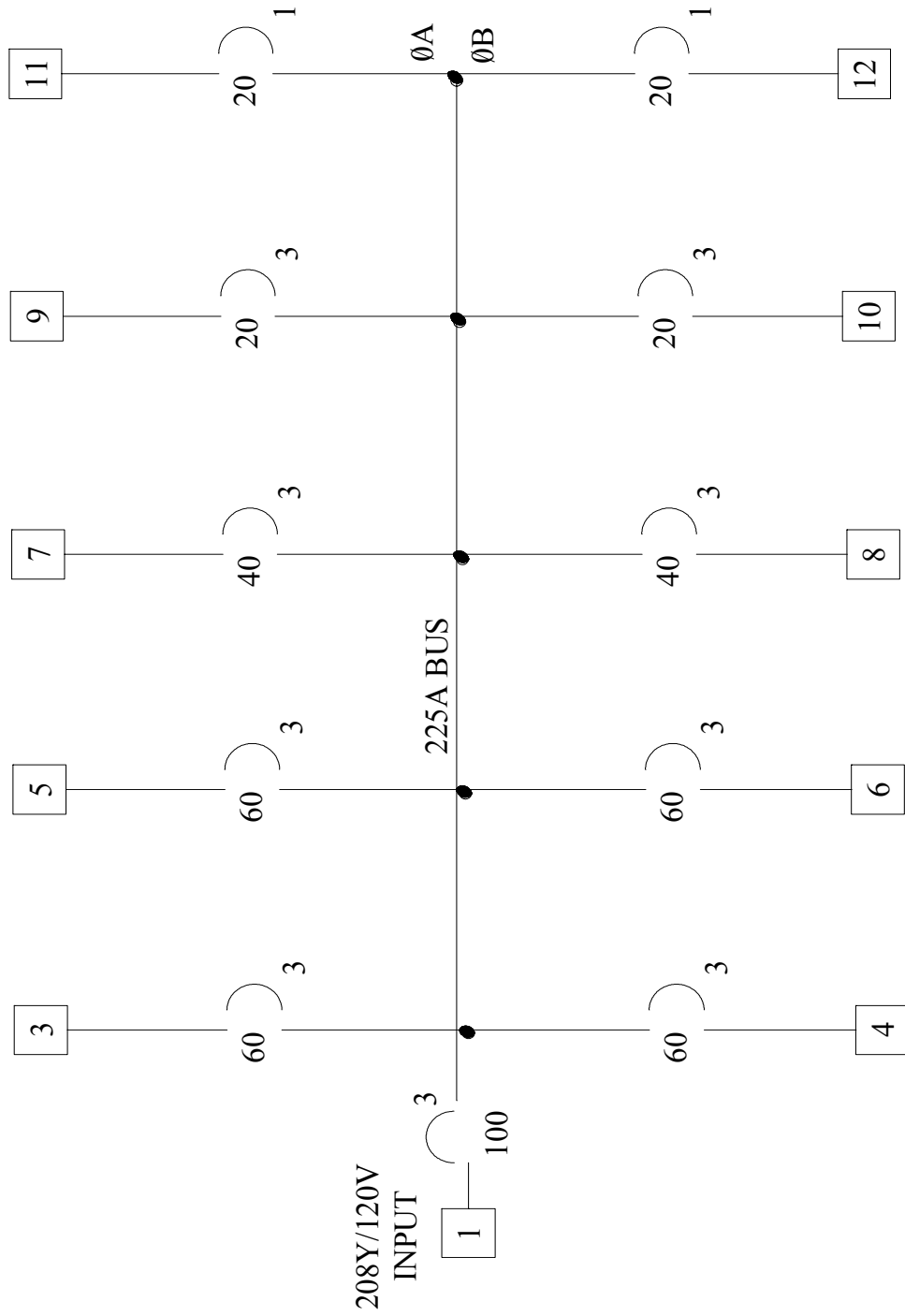


FIGURE 1. Single-line wiring diagram.

TABLE I. Circuit characteristics.

Quantity	Circuit kind	Circuit breaker Pole (P) - Ampere (A)	Interface connector ¹
1	208Y/120V, 3-phase, 4P, 5W	3P-100A	MS90558C44412P
4	208Y/120V, 3-phase, 4P, 5W	3P-60A	MS90555C32412S
2	208Y/120V, 3-phase, 4P, 5W	3P-40A	MS90555C28412S
2	208Y/120V, 3-phase, 4P, 5W	3P-20A	MS17346R24N10S
2	120V, 1-phase, 2P, 3W	1P-20A, GFCI type	MS17346R22N2S

¹ Connector designations are military type connectors conforming to MIL-C-22992. See MIL-DTL-29183.

TABLE II. Connector assignment and connector terminal wiring.

Circuit	Function	Interface connector ¹	Phase A, black wire	Phase B, red wire	Phase C, blue wire	Neutral , white wire	Ground, green (bare) wire
1	Input	MS90558C44412P	A	B	C	N	G1, G2 G3, G4
3, 4, 5, 6	Branch	MS90555C32412S	A	B	C	N	G
7,8	Branch	MS90555C28412S	A	B	C	N	G
9, 10	Branch	MS17346R24N10S	F	B	E	A	C
11	Branch	MS17346R22N2S	B	-	-	C	A
12	Branch	MS17346R22N2S	-	B	-	C	A

¹ Connector designations are military type connectors conforming to MIL-C-22992. See MIL-DTL-29183.

TABLE III. Government furnished equipment.

Item	Quantity	Description	Military part number ¹
1	1	MIL-C-22992, class L, 100A wall mount, plug, with coupling ring, connector	MS90558C44412P
2	1	Protective cover (plug) for item 1	MS90564-7C
3	4	MIL-C-22992, class L, 60A, wall mount socket receptacle connector	MS90555C32412S
4	4	Protective cover (cap) for item 3	MS90563-3C
5	2	MIL-C-22992, class L, 40A, wall mount socket receptacle	MS90555C28412S
6	2	Protective cover (cap) for item 5	MS90563-1C
7	2	MIL-C-22992, class R, size 24, box mount socket receptacle	MS17346R24N10S
8	2	Protective receptacle cover for item 7	MS17349N24B
9	2	MIL-C-22992, class R, size 22, box mount socket receptacle	MS17346R22N2S
10	2	Protective receptacle cover for item 9	MS17349N22B

¹ Connector designations are military type connectors conforming to MIL-C-22992. See MIL-DTL-29183.

Custodian:
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Preparing Activity:
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(Project 6110-0443-003)

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INSTRUCTIONS

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I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
MIL-DTL-29183/3B

2. DOCUMENT DATE (YYYYMMDD)
20030313

3. DOCUMENT TITLE

PANELBOARD, POWER DISTRIBUTION, PORTABLE, WEATHERPROOF, TYPE I, CLASS 1, CONFIGURATION 3: 208Y/120 VOLT, 30 KILOWATT

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*

b. ORGANIZATION

c. ADDRESS *(Include Zip Code)*

d. TELEPHONE *(Include Area Code)*
(1) Commercial
(2) DSN
(if applicable)

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8. PREPARING ACTIVITY

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